

## Puissances – Exercices corrigés

- $2^3 = 8$   
 $(-5)^2 = 25$   
 $5^{-2} =$

- $(a^3)^4 = a^{3 \cdot 4} = a^{12}$   
 $(a^4)^3 \times a^{-5} = a^{4 \cdot 3 - 5} = a^7$

$$\frac{(a^3)^5 \times a^6}{a^7} = a^{5 \cdot 3 + 6 - 7} = a^{14}$$

- $D = 5^3 \times 3^3 = (15)^3 = 3375$

$$K = \frac{(-3)^5 \times 5^4}{15^2 \times 3^4} = \frac{(-1)^5 \cdot 3^5 \cdot 5^4}{3^2 \cdot 5^2 \cdot 3^4} = \frac{-5^2}{3} = \frac{-25}{3}$$

$$L = 2\sqrt{2} \times 3\sqrt{3} \times \sqrt{6} = 6\sqrt{2 \cdot 3 \cdot 6} = 6\sqrt{36} = 6 \cdot 6 = 36$$